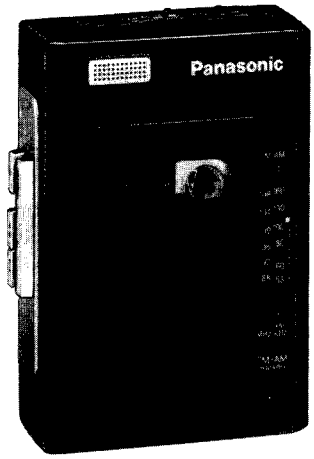
ORDER NO. AD8806112C2

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-SR39



Color

(K).....Black Type

Area

Color	Area
(K)	[Z]..... For All European areas except United Kingdom, F.R. Germany.
(K)	[ZE] ...For United Kingdom.
(K)	[ZG] ...For F.R.Germany.

RX-SR39 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	Battery; 3V(two UM-3,"AA" size batteries) AC; 220V,50Hz with optional Panasonic AC Adaptor RD-9443HS for [Z][ZG] 240V,50Hz with optional Panasonic AC Adaptor RD-9443HE for [ZE]
Power Output:	HEADPHONES: 16mW(8mW x2) ... RMS(max.) STEREO SPEAKER: 170mW ...RMS(max.) MONAURAL
Speaker:	3.6cm PM Dynamic Speaker(4Ω)
Jacks:	
Input;	DC IN;3V(ø 2.5) MIC: (0.25 mV, 200~600Ω, Ø3.5)
Output;	HEADPHONES: (16Ω, Ø3.5)
Dimensions:	85.7(W) x124(H) x37.7(D) mm
Weight:	230g without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108MHz AM; 520~1610kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455 kHz...[Z][ZG] 470 kHz...[ZE]
Sensitivity:	FM; 2μV/0.5 mW output(-3 dB Limit sens) AM; 142μV/m/0.2 mW output

Tape Section:

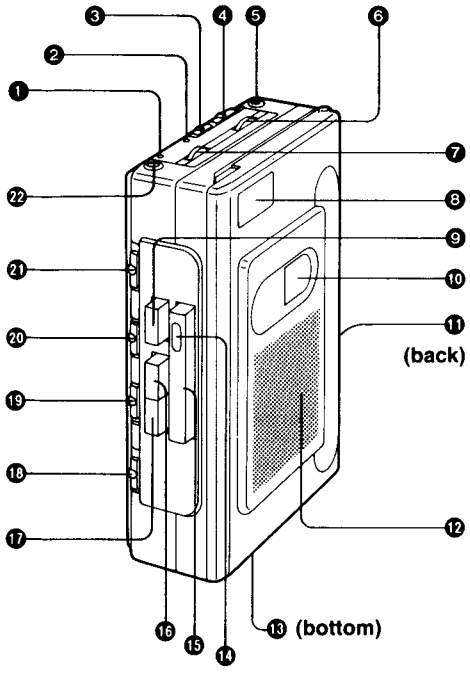
Frequency Response:	150~8000Hz
Recording System:	AC bias,Magnet erase
Tape Speed:	4.8cm/s
Track System:	4-track 2-channel stereo

Design and specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

LOCATION OF CONTROLS



❶ Operation/Battery Check Indicator (OPR/BATT)
❷ FM Stereo Indicator (FM ST)
❸ Sound Level Equalizer Switch/Tone Selector (SLE/TONE)
❹ Band Selector (BAND)
❺ Headphones Jack (∩) (∅3.5, 16Ω)
❻ Tuning Control (TUNING)
❼ Volume Control (VOLUME)
❽ Built-in Microphone (MIC)
❾ Stop Button (■ STOP)
❿ Cassette Compartment
⓫ Battery Compartment
⓬ Monitor Speaker (3.6 cm, 4Ω)
⓭ DC Input Jack (DC IN 3 V ⊖-●-⊕)
⓮ Record Button (● REC)
⓯ Playback Button (▼ PLAY)
⓰ Rewind/Review Button (▲ REW/REV)
⓱ Fast Forward/Cue Button (▼ FF/CUE)
⓲ Beat Proof Switch (B.P)
⓳ Speaker Switch (SPEAKER)

Left channel sound can be monitored through the Monitor Speaker by switching on independent of connection of the Headphones. (Make sure to set to OFF when listening with the Headphones.)

⓴ Function Selector
㉑ Pause Switch (PAUSE)
㉒ Stereo Microphone Jack (ST MIC) (∅3.5, 0.25 mV, 200~600Ω)

DISASSEMBLY INSTRUCTIONS

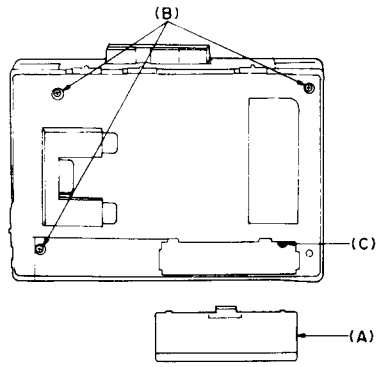


Fig. 1

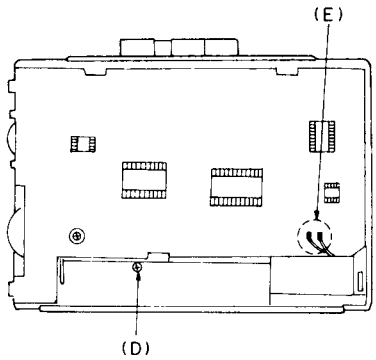


Fig. 2

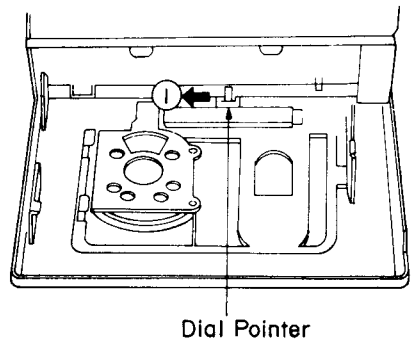


Fig. 3

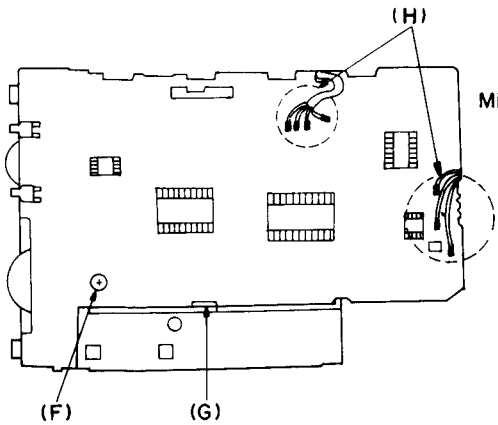


Fig. 4

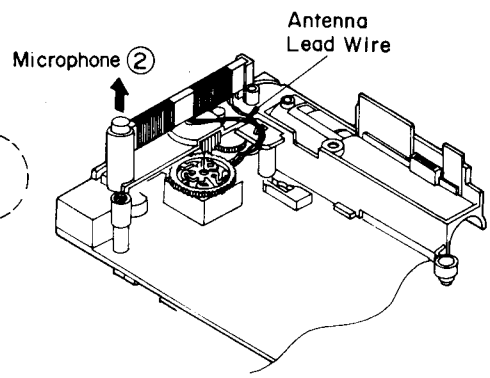


Fig. 5

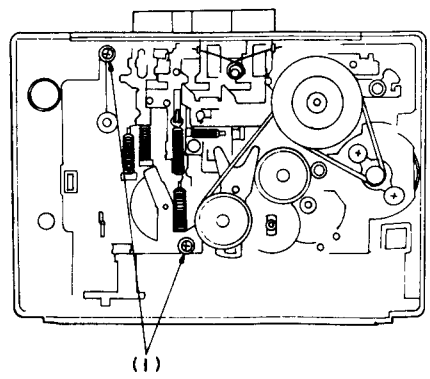


Fig. 6

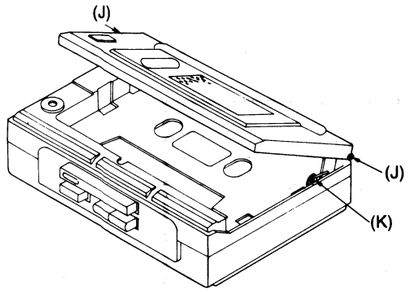


Fig. 7

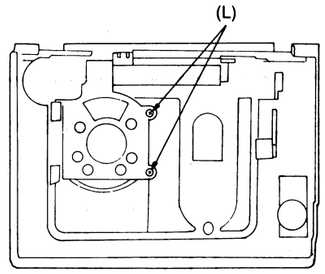


Fig. 8

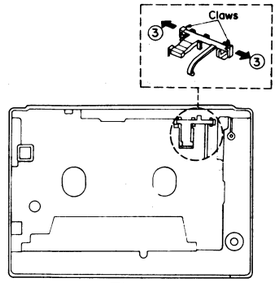


Fig. 9

Steps	Shown in Fig.—.	To remove—.	Remove—.
1	1	Rear Cabinet	Battery compartment ..... (A)×1
2			Screw (2×25) mm ..... (B)×3
3			Screw (2×5) mm ..... (C)×1
4	2	P.C.B.	Screw (2×5) mm ..... (D)×1
5			Solder ..... (E)×2
6	3	Dial pointer	Remove the dial pointer in the direction of the arrow ①.
7	4	Dial Chassis Ass'y	Screw (2×5) mm ..... (F)×1
8			Hook ..... (G)×1
9			Solder ..... (H)×7
10	5		Remove the microphone in the direction of the arrow ②.
11	6	Mechanism	Screw (2×8) mm ..... (I)×2
12	7	Cassette compartment	Screw (2×10) mm ..... (J)×2
13			Spring ..... (K)×1
14	8	Speaker	Screw (1.7×4) mm ..... (L)×2
15	9	Record prevention lever	Remove the claws in the direction of the arrows ③.

■ DIAL CHASSIS ASSEMBLY

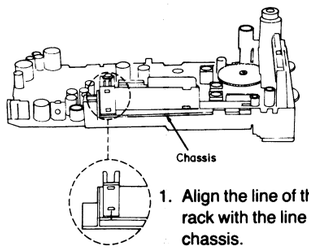


Fig. 10

1. Align the line of the dial pointer rack with the line on the chassis.

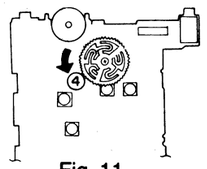


Fig. 11

2. Fully rotate the dial drum in the direction of the arrow ④.
3. Install the tuner P.C.B. in the chassis.

■ SPEAKER ASSEMBLY

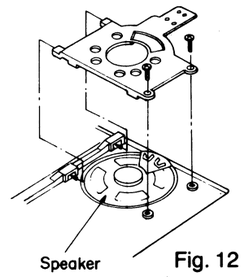


Fig. 12

●Two screws (1.7×4) mm.

■ CASSETTE COMPARTMENT ASSEMBLY

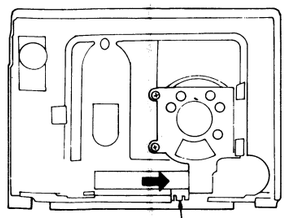


Fig. 13

1. Install the dial pointer in the cassette compartment and fully slide it in the direction of the arrow. (refer to Fig. 13)

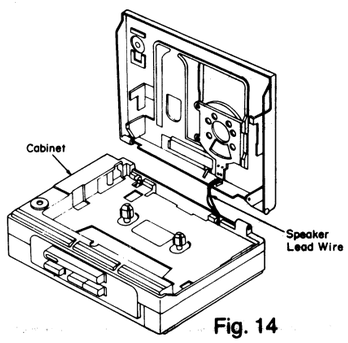


Fig. 14

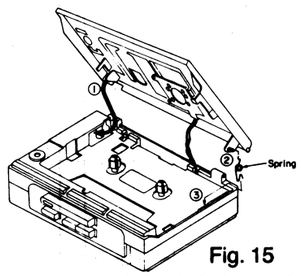


Fig. 15

2. Insert the speaker lead wires in the hole on the base of the front cabinet. (refer to Fig. 14)
3. Install the cassette compartment on the unit in the order shown in the Fig. 15.

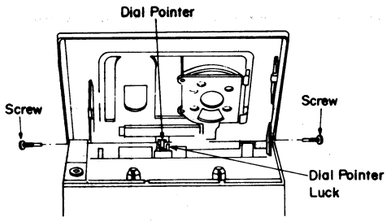
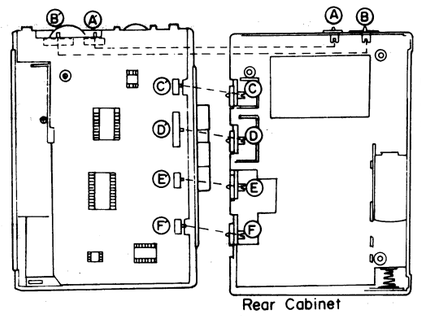


Fig. 16

4. Insert the dial pointer in the dial pointer rack.

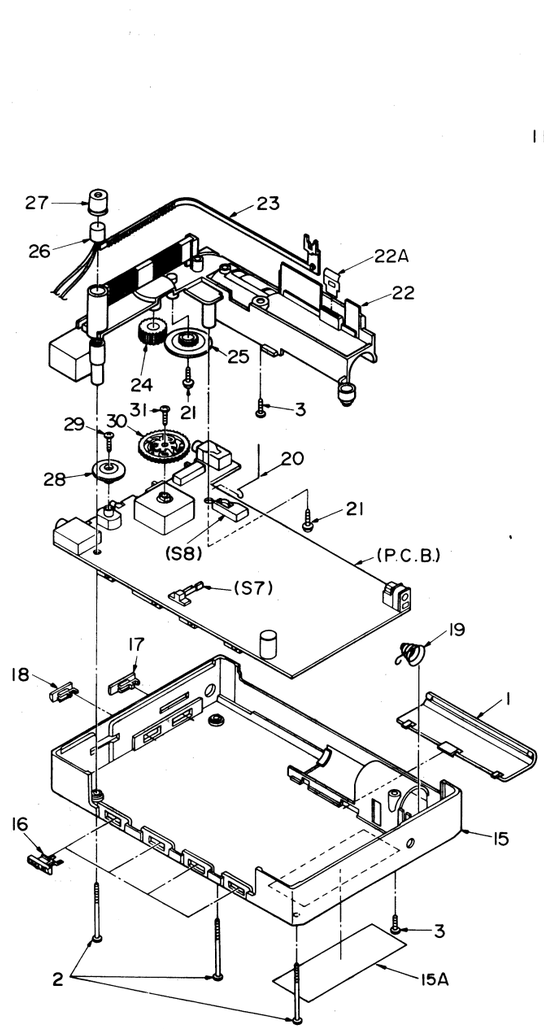
■ CABINET ASSEMBLY

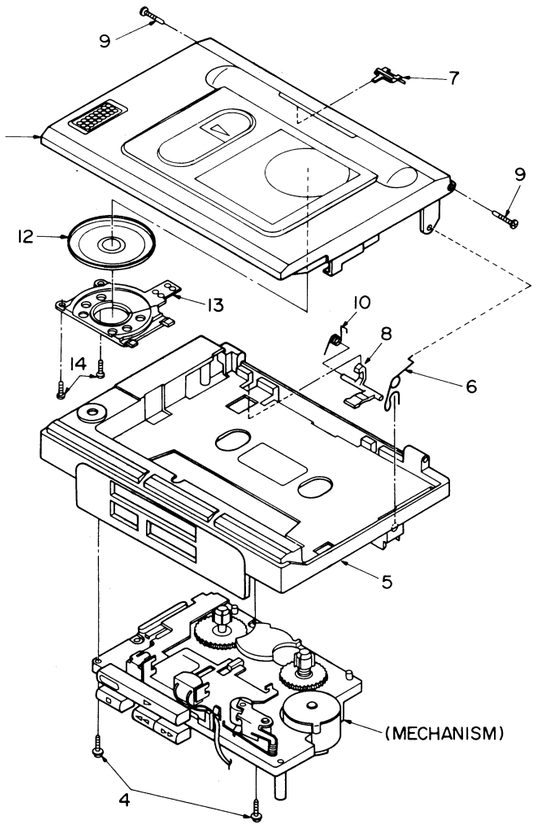


When installing the rear cabinet match points Ⓐ and Ⓐ, Ⓑ and Ⓑ, Ⓒ and Ⓒ, Ⓓ and Ⓓ, Ⓔ and Ⓔ, and points Ⓕ and Ⓕ carefully. A shown in Fig. 17.

Fig. 17

CABINET PARTS LOCATION

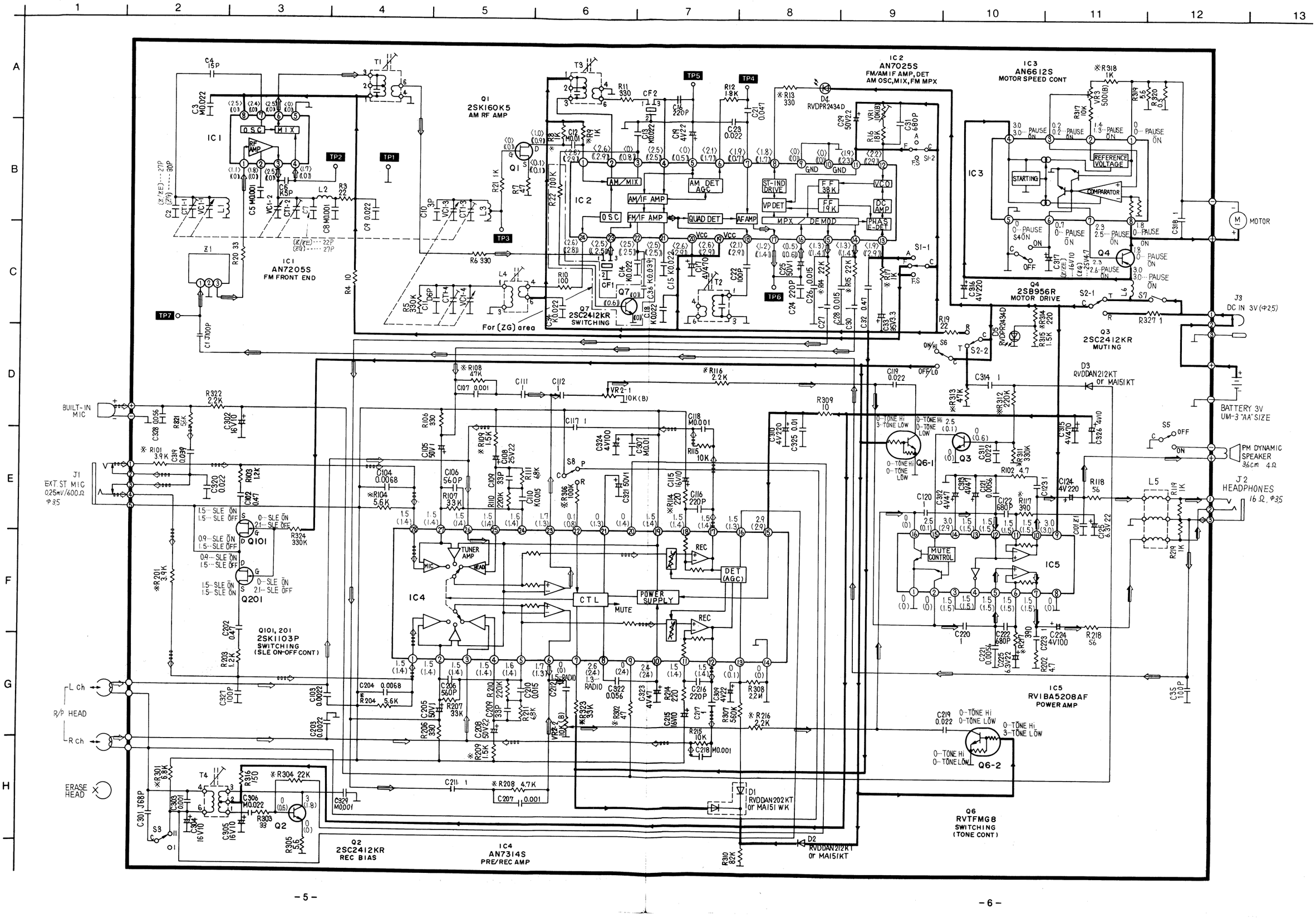




▼ Be sure to fold at the (▼) mark so that mark is on the outside.

D

SCHEMATIC DIAGRAM



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

Notes: (for SCHEMATIC DIAGRAM)

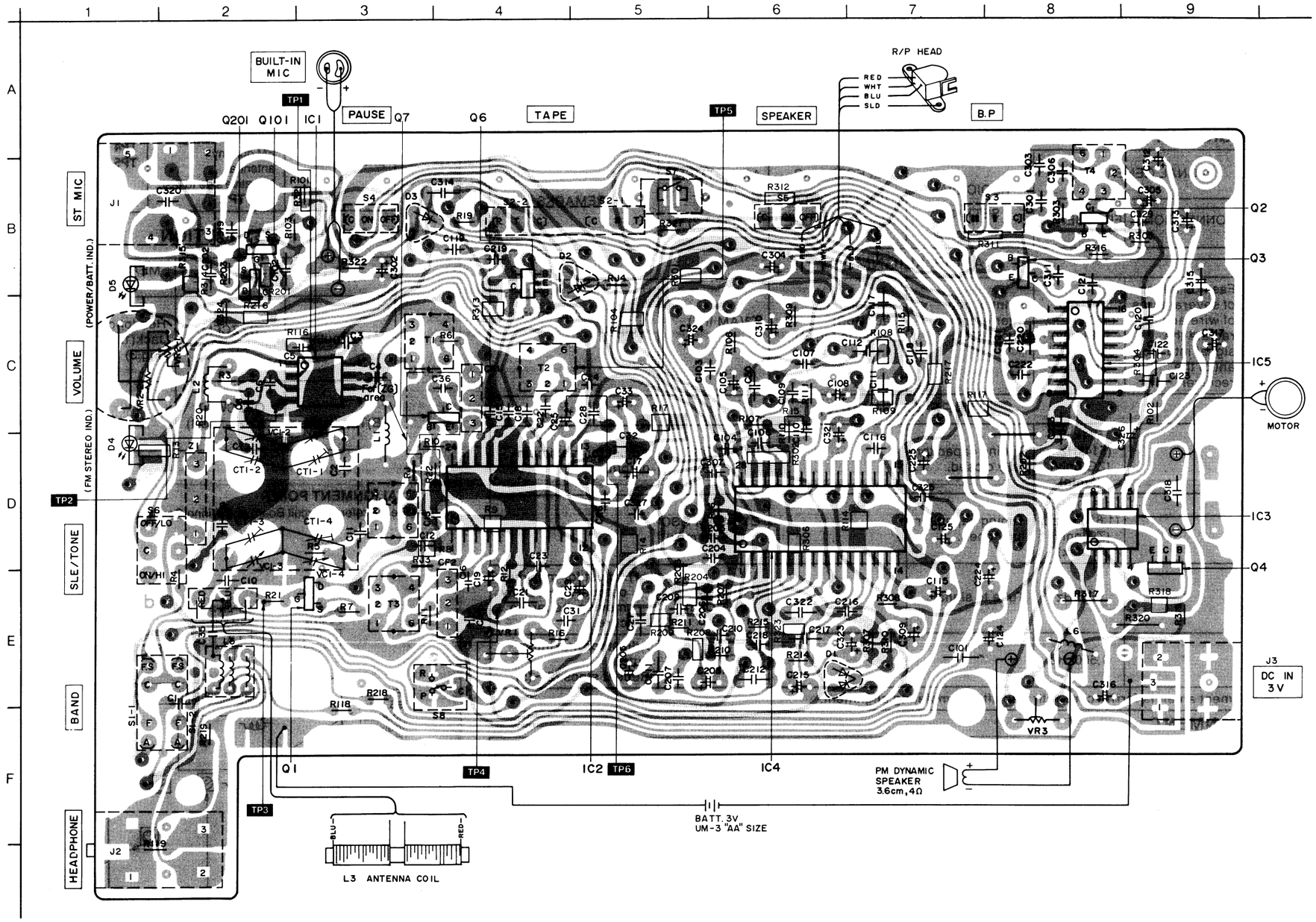
1. S1-1, S1-2 : Band select switch in "FM" position. (A...AM, FS...FM STEREO, F...FM)
2. S2-1, S2-2 : Function select switch in "TAPE/OFF" position. (T...TAPE/OFF, R...RADIO)
3. S3 : Beat proof switch in "❚❚" position.
4. S4 : Pause switch in "ON" position.
5. S5 : Speaker "OFF" position.
6. S6 : SLE/TONE switch in "OFF" position.
7. S7 : Motor switch.
8. S8 : Record/Playback switch in "PLAYBACK" position. (P...PLAYBACK, R...RECORD)
9. VR1 : FM VCO adjustment VR.
10. VR2-1, VR2-2 : Volume control VR.
11. VR3 : Motor speed adjustment VR.
12. Battery current : Playback ..... 160 mA (VR min) 220 mA (VR max)
    Record ..... 240 mA
    Radio ..... 42 mA (VR min) 102 mA (VR max)
13. DC voltage measurements are taken with electronic voltmeter. The negative terminal of the battery. Provides negative meter connection point.

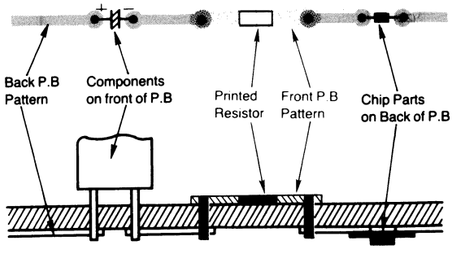
< >...FM, (( ))...AM, ( )...Record,
No mark...Playback

14. ※...Printed Resistor

- This schematic diagram may be modified at any time with the development of new technology.

⇒...FM SIGNAL LINE, ⇒...PLAYBACK SIGNAL LINE,
⇨...RECORD SIGNAL LINE ⟹...MAIN SIGNAL LINE,
➡...+B LINE

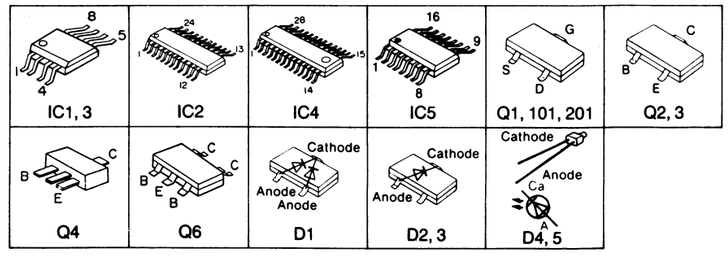




Notes:

1. The symbols (▫) shown in the circuit board indicate printed resistor.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
3. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
4. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

- **This circuit board diagram may be modified at any time with the development of new technology.**



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set SLE/TONE switch to ON/HI.
3. Set band switch to AM or FM ST.
4. Set selector switch to RADIO or TAPE.
5. Set power source voltage to 3V DC
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

	BAND	SIGNAL GENERATOR CONNECTIONS	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ELECTRONIC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT POINT (Fig.1,2)	REMARKS
		AM-IF ALIGNMENT					
(1)	AM	Fashion a loop of several turns of wire and radiate the signal into loop ant.of the receiver.	455kHz (470 kHz.... [ZE]only) 30 % Mod. at 400Hz	Point of non-interference.(on/ about 600kHz)	Headphones Jack (16Ω) (Refer to Fig.3)	**T3**(AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	〃	511kHz (514kHz... [ZG]only) (f min)	Tuning capacitor fully closed.	〃	**L4**(AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,670 kHz (1,638 kHz... [ZG]only) (f max)	Tuning capacitor fully open.	〃	**CT1-4**(AM OSC Trimmer)	〃
(4)	AM	〃	550kHz	Tune to signal	〃	(*1)**L3**(AM ANT Coil)	(*1) Adjust for maximum output.Adjust L3 by moving the ferrite core.
(5)	AM	〃	1,500kHz	〃	〃	**CT1-3**(AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
	(*1) Cement antenna ferrite core with wax after completing alignment.						

■ FM ALIGNMENT

		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001μF to test point **TP2.** Negative side to test point **TP1.**	10.7MHz (SWP)	Point of non-interference.(on/ about 90 MHz)	Connect vert. amp.of scope to test point**TP6.** Negative side to test point**TP5.**	**T1**(FM 1st IFT)	wave form is shown in Fig. 4.
(2)	FM	〃	〃	〃	〃	**T2**(FM 2nd IFT)	wave form is shown in Fig. 5.
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point **TP7** through FM dummy antenna. Negative side to test point **TP1.**	86.8 MHz (87.36MHz... [ZG]only)	Variable capacitor fully closed.	Headphones Jack (16Ω) (Refer to Fig.3)	**L1**(FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		109.2MHz (108.3MHz... [ZG]only)	Variable capacitor fully open.	〃	**CT1-1**(FM OSC Trimmer)	〃
(5)	FM		90MHz	Tune to signal.	〃	**L2**(FM ANT Coil)	〃
(6)	FM		106MHz	〃	〃	**CT1-2**(FM ANT Trimmer)	(*2) Adjust for maximum output.Repeat steps (3)~(6)
	(*2) Three output responses will be present ; proper tuning the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal	98MHz,60 dB(CW) Connect to test point **TP7** through FM dummy antenna. Negative side to test point **TP1**.	**TP4** .....(+) **TP5** .....(-)	VR1 (Refer to Fig.1.)	19kHz	Adjust VR1,for 19kHz (±100Hz) reading on electronic counter.

■ ALIGNMENT INSTRUCTION

ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
(A)Azimuth	QZZCFM (8kHz,-20 dB)	Headphones Jack(16Ω) (Fig.3)	Azimuth adjustment screw (Refer to Fig.6)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth alignment with both channels equal. Then screw-lock the adjustment in place.
(B)Tape speed	QZZCWAT (3kHz,-10dB)	〃	VR3 (Refer to Fig.1)	Playback the central part of the tape and adjust VR3 so that the tape speed is as follows. 3000±10Hz

■ ALIGNMENT POINT

●Please refer to Circuit Board and Wiring Connection Diagram for test point location.

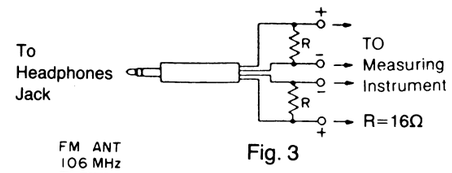


Fig. 3

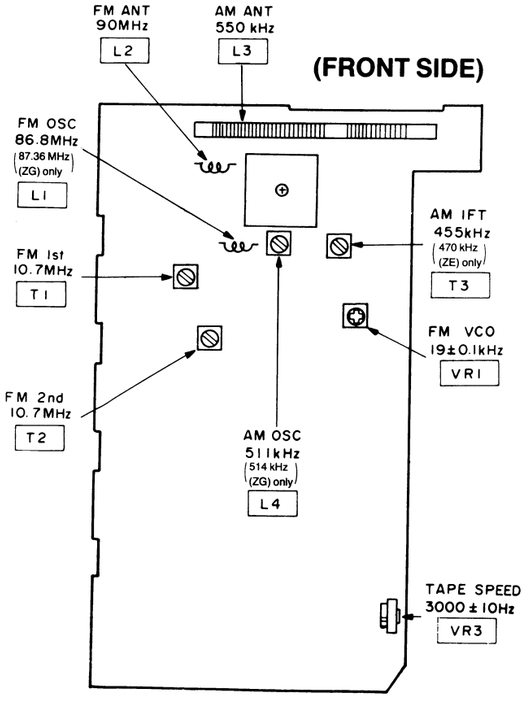


Fig. 1

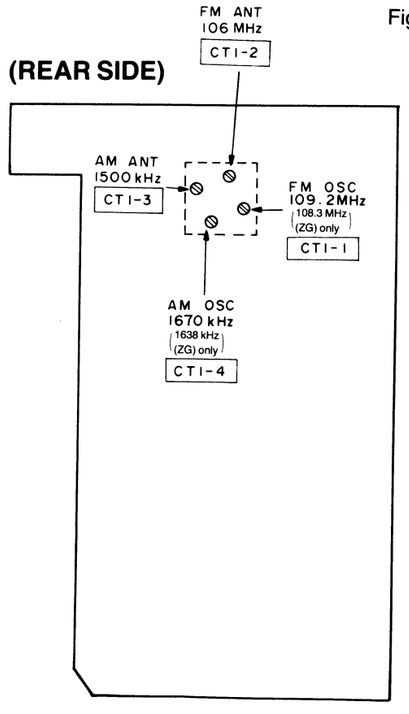


Fig. 2

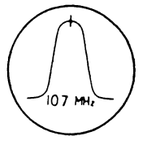


Fig. 4

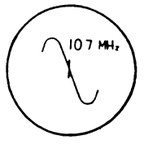


Fig. 5

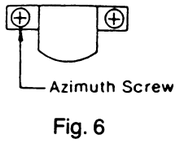
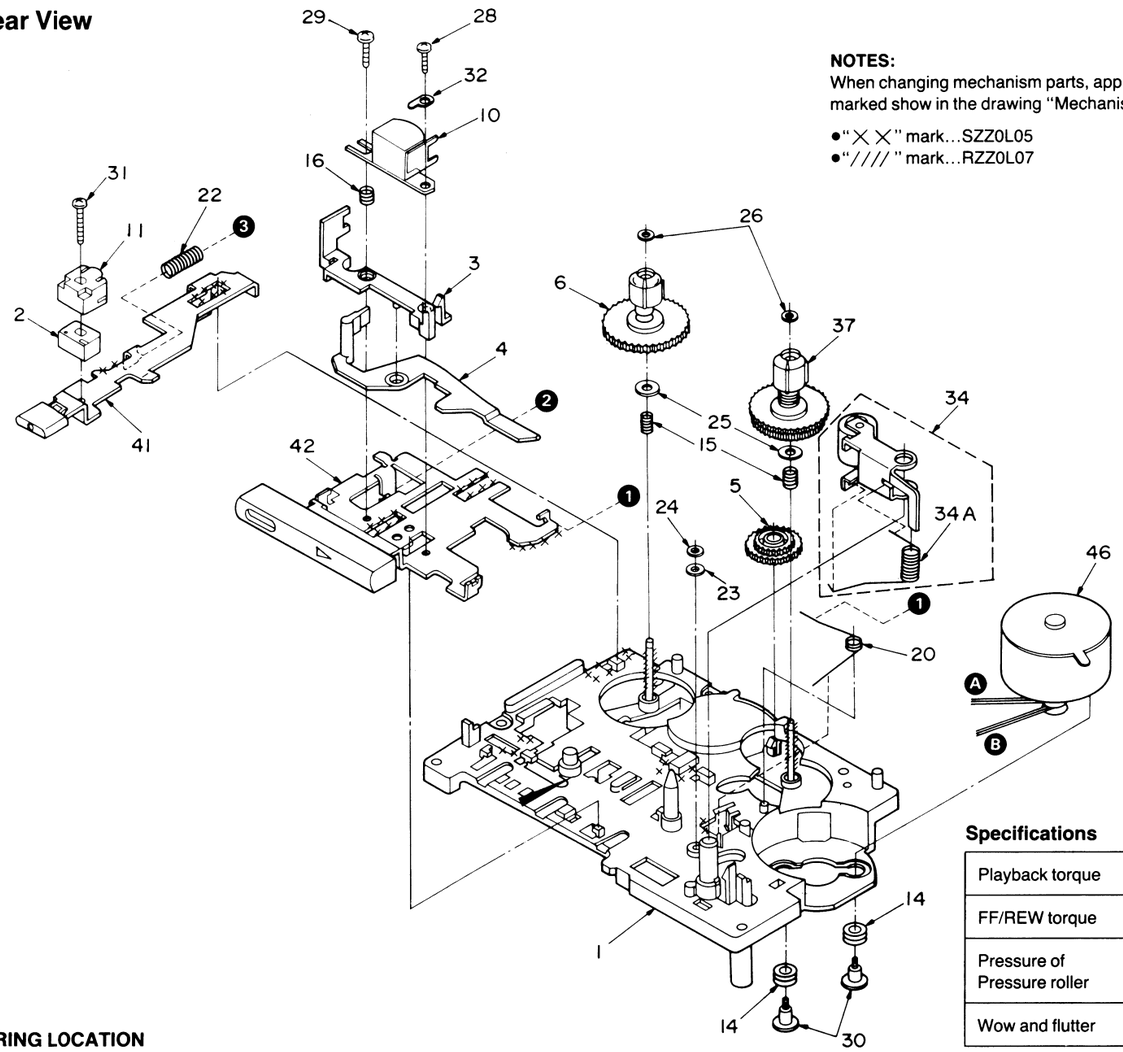


Fig. 6

MECHANISM PARTS LOCATION

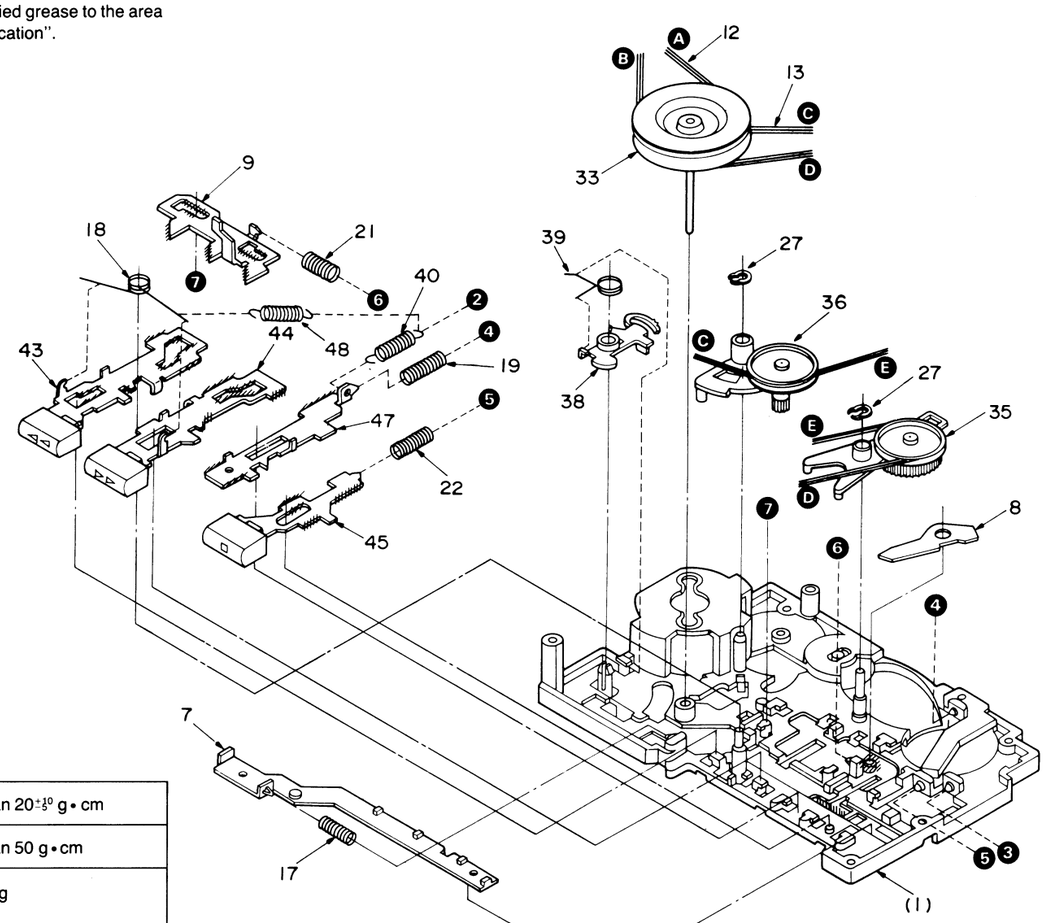
Rear View



NOTES:
When changing mechanism parts, apply the specified grease to the area marked show in the drawing "Mechanism Parts Location".

- "✕✕" mark...SZZ0L05
- "////" mark...RZZ0L07

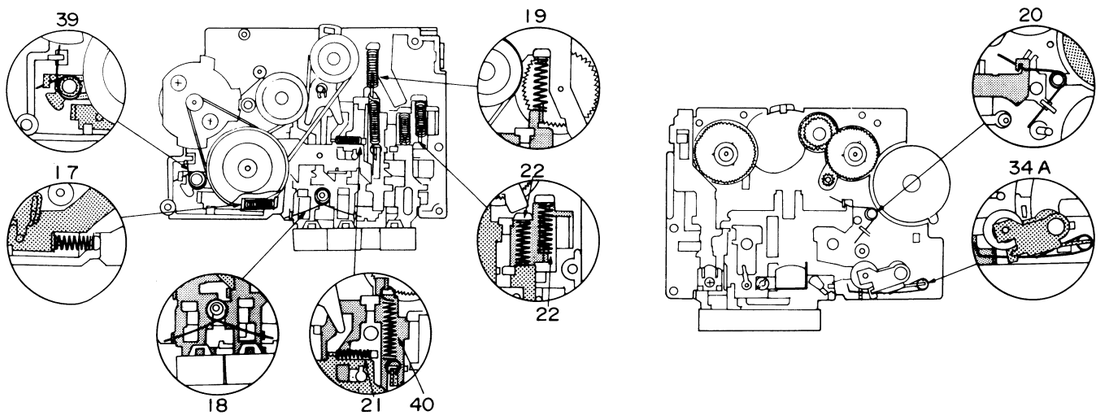
Top View



Specifications

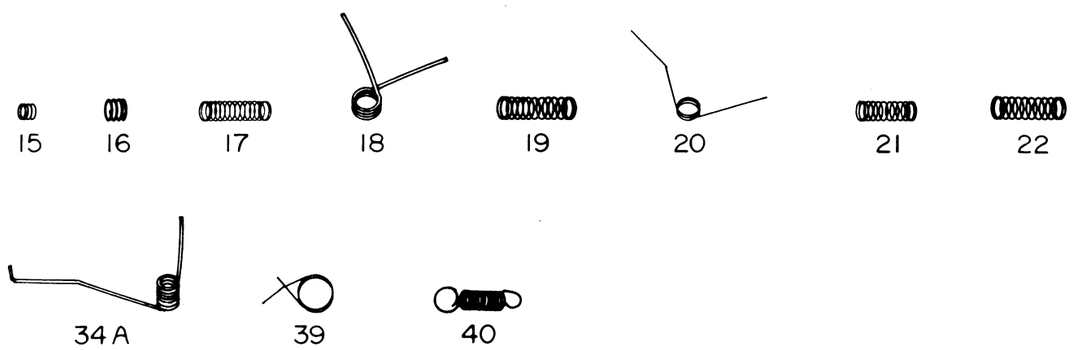
Playback torque	More than 20^{+10}_{-5} g • cm
FF/REW torque	More than 50 g • cm
Pressure of Pressure roller	170±30 g
Wow and flutter	0.3% (WRMS)

■ SPRING LOCATION



■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)



■ RESISTORS & CAPACITORS

Notes : * Important safety notice :
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Numbering System of Resistor

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001μF)	Tolerance	Peculiarity
ECEA	50	M	330	
Type	Voltage (50V)	Pecliarity	Value (33μF)	

● Capacity values are in microfarads (μF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
● Resistance values are in ohms (Ω), unless specified otherwise, 1K = 1,000Ω, 1M = 1,000kΩ

Resistor Type		Wattage		Tolerance
ERD	: Carbon	10 : 1/8W	12 : 1/2W	J : ±5%
ERG	: Metal Oxide	14 : 1/4W	25 : 1/4W	F : ±1%
ERQ	: Fuse Type Metal	1A : 1W	18 : 1/8W	G : ±2%
ERX	: Metal Film	S2 : 1/4W	S1 : 1/2W	J : ±5%
ERD L	: Carbon (chip)	2F : 1/4W	50 : 1/2W	K : ±10%
ERO K	: Metal Film (chip)	2A : 2W	3A : 3W	M : ±20%
ERC	: Solid	6G : 1/10W	8G : 1/8W	
ERF	: Incombustible Box-Shaped			
ERM	: Wire-Wound			
RRJ	: Cip Resistor			
ERJ	: Cip Resistor			

Capacitor Type		Voltage		Tolerance
ECE	: Electrolytic	0J : 6.3V	1A : 10V	K : ±10%
ECCD	: Ceramic	1C : 16V	1E : 25V	M : ±20%
ECKD	: Ceramic Capacitor	1H : 50V	1V : 35V	Z : +80 % −20
ECQM	: Poyester	50 : 50V	05 : 50V	J : ±5%
ECQP	: Polypropylene	2H : 500V	2A : 100V	G : ±2%
ECG	: Ceramic	1 : 100V	1J : 63V	F : ±1%
ECEA N	: Non Polar Electrolytic	KC : 400V AC		C : ±0.25pF
QCU	: Ceramic (Chip Type)	KC : 125V AC (UL)		D : ±0.5pF
ECUX	: Ceramic (Chip Type)			
ECF	: Semiconductor			
EECW	: Liquid electrolyte double layer capacitor			

Ref. No.	Part No.	Value.
RESISTORS(VALUE,WATTAGE)		
R3	RRJ6GCJ220TE	22 1/10
R4	RRJ6GCJ100TE	10 1/10
R5	RRJ6GCJ334TE	330K 1/10
R6	RRJ6GCJ331TE	330 1/10
R7	RRJ6GCJ470TE	47 1/10
R10	RRJ6GCJ101TE	100 1/10
R11	RRJ6GCJ331TE	330 1/10
R12	RRJ6GCJ182	1.8K 1/10
R16	RRJ6GCJ183TE	18K 1/10
R19	RRJ6GCJ220TE	22 1/10
R20	RRJ6GCJ330	33 1/10
R21	RRJ6GCJ102TE	1K 1/10
R102	RRJ6GCK4R7TE	4.7 1/10
R103	RRJ6GCJ152	1.5K 1/10
R106	RRJ6GCJ331TE	330 1/10
R107	RRJ6GCJ333	33K 1/10
R110	RRJ6GCJ224TE	220K 1/10
R111	RRJ6GCJ682TE	6.8K 1/10
R115	RRJ6GCJ103TE	10K 1/10
R118	RRJ6GCJ560TE	56 1/10
R119	RRJ6GCJ102TE	1K 1/10
R202	RRJ6GCK4R7TE	4.7 1/10
R203	RRJ6GCJ152	1.5K 1/10
R206	RRJ6GCJ331TE	330 1/10
R207	RRJ6GCJ333	33K 1/10
R210	RRJ6GCJ224TE	220K 1/10
R211	RRJ6GCJ682TE	6.8K 1/10
R214	RRJ6GCJ221TE	220 1/10
R215	RRJ6GCJ103TE	10K 1/10
R218	RRJ6GCJ560TE	56 1/10
R219	RRJ6GCJ102TE	1K 1/10
R303	RRJ6GCJ471TE	470 1/10
R305	RRJ6GCJ5R6TE	5.6 1/10
R307	RRJ6GCJ564TE	560K 1/10
R308	RRJ6GCJ155TE	1.5M 1/10
R309	RRJ6GCJ100TE	10 1/10
R310	RRJ6GCJ823TE	82K 1/10
R315	RRJ6GCJ152	1.5K 1/10
R316	RRJ6GCJ221TE	220 1/10
R317	ERSA10J103T	10K 1/8
R319	RRJ6GCK3R9TE	3.9 1/10
R320	ERSA39JR50T	0.5 1/10
R321	RRJ6GCJ682TE	6.8K 1/10
R322	RRJ6GCJ222TE	2.2K 1/10
R324	RRJ6GCJ334TE	330K 1/10
RJ3	RRJ6GCJ000TE	0
RJ4	RRJ6GCJ000TE	0
RJ6	RRJ6GCJ000TE	0
CAPACITORS(VALUE,VOLTAGE)		
C1	RCUV1H101K	100P 50
C2	RCUV1H270KC	27P 50
C2 [ZG]	RCUV1H300KC	30P 50
C3	RCUV1H223ZF	0.022 50
C4	RCUV1H150KC	15P 50
C5	RCUV1H102MB	0.001 50
C6	RCUV1H5R0C	5P 50
C7	RCUV1H220K	22P 50
C7 [ZG]	RCUV1H270KC	27P 50
C8	RCUV1H102MB	0.001 50
C9	RCUV1H223ZF	0.022 50
C10	RCUV1H3R0C	3P 50
C11	RCUV1H6R0D	6P 50
C12	RCUV1H103ZF	0.01 50
C13	RCUV1E223KB	0.022 25
C14	RCUV1E223KB	0.022 25
C15	RCUV1E223KB	0.022 25
C16	RCUV1H221KB	220P 50
C17	ECEA0GK471	470 4
C18	RCUV1H223KB	0.022 50
C19	ECEA0GK470	47 4
C21	ECUV1E473MB	0.047 25
C22	RCUV1H101K	100P 50
C23	RCUV1E103KB	0.01 25
C24	RCUV1H221KB	220P 50
C25	ECEA1HKS010L	1 50
C26	RCUV1E153KB	0.015 25
C27	ECUV1C105ZF	1 16
C28	RCUV1E153KB	0.015 25
C29	ECEA1HKS2R2	2.2 50
C30	ECUV1C105ZF	1 16
C31	RCUV1H681KB	680P 50
C32	ECUV1C474ZF	0.47 16
C33	ECEA1VKS3R3L	3.3 35
C34	RCUV1H222KB	0.0022 50
C102	ECUV1C474ZF	0.47 16
C103	RCUV1H222KB	0.0022 50
C104	RCUV1H682KB	0.0068 50
C105	ECEA1HKS010L	1 50
C106	RCUV1H221KB	220P 50
C107	RCUV1H102MB	0.001 50
C108	ECEA0JKK100	10 6.3
C109	RCUV1H330K	33P 50
C110	RCUV1E153KB	0.015 25
C111	RCUV1C105ZF	1 16
C112	RCUV1C105ZF	1 16
C115	ECEA1CKS100	10 16
C116	RCUV1H221KB	220P 50
C117	RCUV1C105ZF	1 16
C118	RCUV1H102MB	0.001 50
C119	RCUV1E223KB	0.022 25
C120	ECUV1E104KB	0.1 25
C121	RCUV1H332KB	0.0033 50
C122	RCUV1H681KB	680P 50
C123	RCUV1C105ZF	1 16
C124	ECEA0GK221L	220 4
C125	ECEA0JKS220	22 6.3
C202	ECUV1C474ZF	0.47 16
C203	RCUV1H222KB	0.0022 50
C204	RCUV1H682KB	0.0068 50
C205	ECEA1HKS010L	1 50
C206	RCUV1H221KB	220P 50
C207	RCUV1H102MB	0.001 50
C208	ECEA1CKS100	10 16
C209	RCUV1H330K	33P 50
C210	RCUV1E153KB	0.015 25
C211	RCUV1C105ZF	1 16
C212	RCUV1C105ZF	1 16
C215	ECEA1CKS100	10 16
C216	RCUV1H221KB	220P 50
C217	RCUV1C105ZF	1 16
C218	RCUV1H102MB	0.001 50

■ RESISTORS & CAPACITORS

Ref. No.	Part No.	Value.
C219	RCUV1E223KB	0.022 25
C220	ECUV1C105ZF	1 16
C221	RCUV1H332KB	0.0033 50
C222	RCUV1H681KB	680P 50
C223	RCUV1C105ZF	1 16
C224	ECEA0GK101L	100 4
C225	ECEA0JKS220	22 6.3
C301	RCUV1H680KC	68P 50
C302	ECEA1CK100L	10 16
C303	RCUV1H102KB	0.001 50
C304	ECEA1CK100L	10 16
C305	ECEA1CK100L	10 16
C306	RCUV1E223KB	0.022 25
C307	RCUV1H103ZF	0.01 50
C308	RCUV1E333KB	0.033 25
C309	ECEA0GK220L	22 4
C310	ECEA0GK221L	220 4
C311	RCUV1E223KB	0.022 25
C312	ECEA0GK470	47 4
C313	ECEA0GK470	47 4
C314	RCUV1C105ZF	1 16
C315	ECEA0GK471	470 4
C316	ECEA0GK221L	220 4
C317	ECEA1EK4R7L	4.7 25
C318	RCUV1C105ZF	1 16
C319	RCUV1E223KB	0.022 25
C320	RCUV1E393KB	0.039 25
C321	ECEA1HKS010L	1 50
C322	ECUV1E563KB	0.056 25
C323	ECEA0GKS470L	47 4
C324	ECEA0GK101L	100 4
C325	RCUV1H103ZF	0.01 50
C326	ECST0GB106R	10 4
C327	RCUV1H101K	100P 50
C328	ECUV1E563KB	0.056 25

■ REPLACEMENT PARTS LIST

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Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	AN7205S-T2	I.C. RRONT END
IC2	AN7025S-T2	I.C. DET/OSC
IC3	AN6612S-T2	I.C. MOTOR CONT.
IC4	AN7314S-T2	I.C. PRE AMP
IC5	BA5208AF	I.C. POWER AMP
TRANSISTORS		
Q1	2SK160K5T1	TRANSISTOR
Q2	2SC2412KRT97	TRANSISTOR
Q3	2SC2412KRT97	TRANSISTOR
Q4	2SB956RTX	TRANSISTOR
Q6	RVTFMG8T98	TRANSISTOR
Q7 [ZG]	2SC2412KRT97	TRANSISTOR
Q101	2SK198PTX	TRANSISTOR
Q201	2SK198PTX	TRANSISTOR
DIODES		
D1	RVDDAN202K	DIODE
D2	RVDDAN212K	DIODE
D3	RVDDAN212K	DIODE
D4	RVDPR2434D	DIODE
D5	RVDPR2434D	DIODE
VARIABLE RESISTORS		
VR1	EVND4AA00B14	V.R.-FM VCO
VR2	EVUBAAT50A14	V.R. VOLUME
VR3	EVND1AA00B52	V.R. TAPE SPEED
VARIABLE CAPACITORS		
VC1	RCV4LC4R2-A	V.C.
COILS AND TRANSFOMERS		
L1 [ZG]	RL0245-0	COIL
L1	RL04Y148	COIL
L2	RL04Y78	COIL
L3	RLF2N21-0	FERRITE ANTENNA
L4	RL02A3	COIL
L5	RLQUR63K	COIL
L6	RLQZ5002	COIL
T1	RLI4A4	I.F.TRANSFORMER
T2	RLI4A4	I.F.TRANSFORMER
T3	RLI2A37	I.F.TRANSFORMER
T4	QLB0195	COIL
COMPONENT COMBINATIONS		
Z1	RXABPWML11Y	COMPONENT COMBINATION
FILTERS		
CF1	QCRZ107MA5	CERAMIC FILTER
CF2 (Z, ZG)	RVFPFA455A	CERAMIC FILTER
CF2 (ZE)	RVFPFA470A	CERAMIC FILTER
SWITCHES		
S1	RSS3B32Z	SW, BAND
S2	RSS2B38YA-A	SW, FUNCTION
S3	RSS2A38YA	SW, B.P
S4	RSS2A38YA	SW, PAUSE
S5	RSS2A38YA	SW, SPEAKER
S6	RSS2A65ZA-Q	SW, SLE/TONE
S7	RSH1A74ZA-U	SW, MOTOR
S8	QSB0303	SW, R/P
OTHERS		
J1	RJJD3S5Z	JACK, HEADPHONES
J2	RJJB2Z	JACK, DC IN
J3	RJJD5S2ZA	JACK, MIC

■ REPLACEMENT PARTS LIST

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Ref. No.	Part No.	Description
CABINET AND CHASSIS		
1	1KKAKSR39ZA0	BATTERY COVER
2	XTN2+25JZ	SCREW
3	XTN2+5J	SCREW
4	XTW2+8S	SCREW
5	RYMXSR39M	FRONT CABINET ASS'Y
6	RUWK99ZA	SPRING
7	RDPK529ZA-0	POINTER
8	RNCK102ZA	LEVER
9	QHQ1362K	SCREW
10	RUWK98ZA	SPRING
11	RYQXSR39Z	CASSETTE LID ASS'Y
(Z, ZE)		
11	RYQXSR39ZG	CASSETTE LID ASS'Y
(ZG)		
12	EAS3P123B	SPEAKER
13	RMSK4ZA-0	BRACKET, SPEAKER
14	XQN17+AJ4FZ	SCREW
15	RYFXSR39Z	REAR CABINET ASS'Y
(Z)		
15	RYFXSR39ZE	REAR CABINET ASS'Y
(ZE)		
15	RYFXSR39ZG	REAR CABINET ASS'Y
(ZG)		
15A	RGTK86XA	INDICATION PLATE,LABEL
(ZG)		
15A	RGTK86YA	INDICATION PLATE,LABEL
(ZE)		
15A	RGTK86ZA	INDICATION PLATE,LABEL
(Z)		
16	RBDK64ZA-0	KNOB, SELECTOR
17	RBDK65ZA-0	KNOB, BAND
18	RBDK66ZA-0	KNOB, SLE/TONE
19	RJCK70002ZA	SPRING, BATTERY(-)
20	RJCK93001ZA	BATTERY TERMINAL
21	XTW2+5S	SCREW
22	RZAXSR39M	DIAL CHASSIS ASS'Y
22A	RUSK14ZA	SPRING
23	RDPK530ZA	RACK
24	RDGK5612ZA	GEAR
25	RBTK16ZA-0	KNOB, TUNING
26	WM60AY	MICROPHONE
27	RHGK714ZA	RUBBER
28	RBTK17ZA-0	KNOB
29	XQN17+C35	SCREW
30	RDGK5613ZA-1	GEAR
31	XQN17+C3	SCREW

■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description
MECHANISM		
CASSETTE DECK		
1	1UAAKSR29ZA	CHASSIS
2	RUEK10ZA	BRACKET, E HEAD
3	RUEK11ZA	BRACKET, R/P HEAD
4	RNLK106ZA	LEVER
5	RNGK34ZA	GEAR
6	RDMK5ZA	REEL TABLE
7	RNRK74ZA	ROD
8	RNLK108ZA	LEVER
9	RNRK80ZA	ROD
10	RJH4C55GZA1	R/P HEAD
11	RJH2C25XZDG	E.HEAD
12	RDVK35ZA	BELT
13	RDVK36ZA	BELT
14	RHG5065ZA	RUBBER
15	RUQK50ZA	SPRING
16	RUQK29ZA	SPRING
17	RUQK9Z	SPRING
18	RUWK94ZA	SPRING
19	RUQK46ZA	SPRING
20	RUWK96ZA	SPRING
21	RUQK47ZA	SPRING
22	RUQK44ZA	SPRING
23	RNWK2117ZA	WASHER
24	RNWK1718ZA	WASHER
25	RNWK208Z	WASHER
26	QBK92030	WASHER
27	XUEV22VW	E.RING
28	XSN2+6	SCREW
29	XSB2D55	SCREW
30	RFE366ZA	SCREW
31	XSN2+12	SCREW
32	RJTK201ZA	TERMINAL
33	1DWAKSR29ZA	FLYWHEEL
34	1NLAKSR29ZA	PINCHI ROLLER
34A	RUWK95ZA	SPRING
35	2NLAKSR29ZA	LEVER
36	3NLAKSR29ZA	LEVER
37	1DMAKSR29ZA	REAL TABLE ASS'Y
38	RNLK104ZA	LEVER
39	RUWK97ZA	SPRING
40	RUDK40ZA	SPRING
41	2NRAKSR29ZA	ROD
42	2UAAKSR29ZA	CHASSIS
43	3NRAKSR29ZA	ROD
44	1NRAKSR29ZA	ROD
45	5NRAKSR29ZA	ROD
46	2JQAKSR29ZA	MOTOR ASS, Y
47	RNRK76ZA	ROD
48	RUDK41ZA	SPRING

■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description
PACKING MATERIAL		
P1	RPKK1120ZA	GIFT BOX
P2	RPNK3059ZA	CUSHION
P3	RPEK131ZA	PAD
P4	RPEK151ZA	SHEET
ACCESSORIES		
A1	RP-HV129JR	HEADPHONES
A2	RKEK14ZA-0	BELT HOLDER
A3	RQXK4100ZA	INSTRUCTION MANUAL

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